

WHAT IS CLAIMED IS:

1. A cup-type beverage vending machine, comprising:
 - a cup stage on which a cup is located;
 - a beverage pouring section for pouring beverage into the cup;and
 - a conveying device for reciprocating the cup stage between the beverage pouring position and a product taking-out position, wherein said machine has a cup holder mechanism which holds the cup on said cup stage when said cup stage is situated other than said product taking-out position, while releases holding condition of the cup when the cup stage is situated in the product taking-out position.
2. The cup-type beverage vending machine according to claim 1, wherein said cup holder mechanism comprises:
 - a pivot arm pivoted movably up and down on said cup stage such that the center of gravity is positioned forward of the pivot;
 - a holder connected to a front side of said pivot arm so as to face at least a front surface of the cup on the cup stage; and
 - a support member which supports said pivot arm when the cup stage is situated other than said product taking-out position and releases support of the pivot arm when the cup stage is situated in the product taking-out position.
3. The cup-type beverage vending machine according to claim 2, wherein said support member is a roller for supporting a lower edge of the pivot arm.
4. The cup-type beverage vending machine according to claim 3, wherein said cup stage has a cup holding block which is formed so as

to surround the cup from its side surfaces to its rear surface.

5. The cup-type beverage vending machine according to claim 4, wherein said conveying means has an endless belt driven by a reversible motor, and said endless belt is connected to the cup stage and arranged along a moving path of the cup stage.

6. The cup-type beverage vending machine according to claim 5, further comprising a drain receptacle for receiving the beverage spilt from the cup below the cup stage.

7. The cup-type beverage vending machine according to claim 6, wherein a product taking-out port is arranged near the product taking-out position and a door of said product taking-out port is opened and closed by an opening device.

8. The cup-type beverage vending machine according to claim 7, wherein the product taking-out position is set outside said product taking-out port.

9. A cup-type beverage vending machine, comprising:

a cup stage on which a cup is located;

a beverage pouring section for pouring beverage into the cup;

and

a conveying device for reciprocating the cup stage between a beverage pouring position and a product taking-out position,

wherein said machine has:

a cup holder mechanism which holds the cup on said cup stage when the cup stage is situated other than said product taking-out position,

while releases holding condition of the cup when the cup stage is situated in the product taking-out position;

a cup sensor for detecting the cup on the cup stage; and

a control means which can control so as to pour the beverage from said beverage pouring section when the cup sensor detects the cup on the cup stage.

10. The cup-type beverage vending machine according to claim 9, wherein said control means can control said conveying means so as to move the cup stage to said product taking-out position after pouring the beverage into the cup.

11. The cup-type beverage vending machine according to claim 10, wherein said control means can control said conveying means so as to return the cup stage to said beverage pouring position when the cup sensor does not detect the cup after moving the cup stage to said product taking-out position.

12. The cup-type beverage vending machine according to claim 11, wherein the door of the product taking-out port is opened and closed by the opening device, and said control means can control the opening device so as to open the door after pouring the beverage into the cup.

13. The cup-type beverage vending machine according to claim 12, wherein said cup stage has the cup holding block formed so as to surround the cup from its side surfaces to its rear surface, and said cup sensor is provided on a side surface of the cup holding block.

14. The cup-type beverage vending machine according to claim 13,

wherein said cup sensor is an optical sensor.

15. The cup-type beverage vending machine according to claim 9, wherein said cup sensor is a pressurized conductive rubber located on a bottom wall of the cup stage.

16. The cup-type beverage vending machine according to claim 9, wherein said cup sensor is a microswitch embedded in the bottom wall of the cup stage.